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APPLICATION NO.	FI	LING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/595,275	(	06/15/2000	Janne parantainen	297-009504-US(PAR)	9365
2512	7590	07/07/2006		EXAM	INER
PERMAN (		7	KIM, KEVIN		
425 POST ROAD FAIRFIELD, CT 06824				ART UNIT	PAPER NUMBER
	,			2611	
				DATE MAILED: 07/07/2000	5

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)					
	09/595,275	PARANTAINEN, JANNE					
Office Action Summary	Examiner	Art Unit					
	Kevin Y. Kim	2611					
The MAILING DATE of this communication Period for Reply	appears on the cover sheet	with the correspondence address					
A SHORTENED STATUTORY PERIOD FOR RE	PLV IS SET TO EXPIRE 31	MONTH(S) OR THIRTY (30) DAYS					
WHICHEVER IS LONGER, FROM THE MAILING  - Extensions of time may be available under the provisions of 37 CFF after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period for reply within the set or extended period for reply will, by stany reply received by the Office later than three months after the mearned patent term adjustment. See 37 CFR 1.704(b).	C DATE OF THIS COMMUN R 1.136(a). In no event, however, may a riod will apply and will expire SIX (6) MC atute, cause the application to become a	IICATION. a reply be timely filed  ONTHS from the mailing date of this communication.  ABANDONED (35 U.S.C. § 133).					
Status							
1) Responsive to communication(s) filed on 1	9 <u>May 2006</u> .						
2a) This action is <b>FINAL</b> . 2b) ⊠ 1	· · · · · · · · · · · · · · · · · · ·						
3) Since this application is in condition for allo	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
closed in accordance with the practice unde	er <i>Ex parte Quayle</i> , 1935 C.	D. 11, 453 O.G. 213.					
Disposition of Claims							
4)⊠ Claim(s) <u>1-6</u> is/are pending in the application	on.						
4a) Of the above claim(s) is/are with	4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.							
6)⊠ Claim(s) <u>1 and 4-6</u> is/are rejected.							
7) Claim(s) 2.3 is/are objected to.	Maria la affara de la como de						
8) Claim(s) are subject to restriction an	d/or election requirement.						
Application Papers							
9)☐ The specification is objected to by the Exam	niner.						
10) The drawing(s) filed on is/are: a) a	accepted or b)  objected to	by the Examiner.					
Applicant may not request that any objection to		• •					
Replacement drawing sheet(s) including the cor	·						
11)☐ The oath or declaration is objected to by the	Examiner. Note the attache	ed Office Action or form PTO-152.					
Priority under 35 U.S.C. § 119							
12) Acknowledgment is made of a claim for fore a) All b) Some * c) None of:	eign priority under 35 U.S.C.	§ 119(a)-(d) or (f).					
1. Certified copies of the priority docum	ents have been received						
Certified copies of the priority docum		Application No.					
3. Copies of the certified copies of the p		··-					
application from the International Bur	reau (PCT Rule 17.2(a)).						
* See the attached detailed Office action for a	list of the certified copies no	ot received.					
Attachment(s)							
<ol> <li>Notice of References Cited (PTO-892)</li> <li>Notice of Draftsperson's Patent Drawing Review (PTO-948)</li> </ol>	4) Interview	Summary (PTO-413)					
<ul> <li>Notice of Draftsperson's Patent Drawing Review (PTO-948)</li> <li>Information Disclosure Statement(s) (PTO-1449 or PTO/SB Paper No(s)/Mail Date</li> </ul>		o(s)/Mail Date Informal Patent Application (PTO-152) 					

#### **DETAILED ACTION**

## Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114 was filed in this application after a decision by the Board of Patent Appeals and Interferences, but before the filing of a Notice of Appeal to the Court of Appeals for the Federal Circuit or the commencement of a civil action. Since this application is eligible for continued examination under 37 CFR 1.114 and the fee set forth in 37 CFR 1.17(e) has been timely paid, the appeal has been withdrawn pursuant to 37 CFR 1.114 and prosecution in this application has been reopened pursuant to 37 CFR 1.114. Applicant's submission filed on May 19, 2006 has been entered.

#### Response to Arguments

2. Applicant's arguments filed May 19, 2006 have been fully considered but they are not persuasive.

Applicant amended claims 1 and 6, the rejection of which was affirmed by the Board of Patent Appeals and Interferences in its decision of March 17, 2006, in an attempt to make salient that channel coding and/or interleaving is connection-specific. Applicant further argues that, since the Kronestedt reference teaches operating all the radio links of the cell operate in the same channel coding mode, this reference fails to teach the connection-specific feature of the claimed invention. However, as pointed out in the Board's decision, the Kronestedt reference was relied on in order to establish the obviousness of mapping request messages to predetermined channel coding scheme. See page 6. The Board further found that the admitted prior art discloses that the mobile terminal generates a request message to set up or change a specific

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connection. See page 5. Additionally, the Kronestedt reference teaches that a selected channel coding mode is implemented by the mobile station as well as by the base station. See col. 5, lines 16-19. The implementation by the mobile station and the base station is independent in that the mode information is transmitted by a mode determiner. See col.4, lines 35-39.

In sum, the admitted prior art which is operating in a connection specific manner would have been modified to set up or change the coding and/or interleaving scheme in response to a received quality of service parameters transmitted by the mobile station.

## Claim Rejections - 35 USC § 103

- 3. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.
- 4. Claims 1,4-6 are rejected under 35 U.S.C. 103(a) as being unpatentable over the admitted prior art in view of Kronestedt et al (US 6,308,082 previously cited).

Claim 1.

The admitted prior art teaches a method for a communication connection over a radio interface between a mobile terminal and a base station of a cellular packet radio system comprises the step of:

generating and communicating a request message at the mobile terminal to the decision-making device, said request message indicating a need for setting up a new radio bearer between the mobile terminal and the base station or changing the characteristics of an existing radio bearer between the mobile terminal and the base station (see page 5, lines 32-34 of the specification of the present application) and indicating a certain set of Quality of Service

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parameters selected by the mobile terminal based on an expected use of the specific communication connection for independent application to the specific connection (see page 5, lines 32-34 of the specification of the present application).

The admitted prior ad does not teach the steps of "mapping said set of Quality of Service parameters to a certain first channel coding and/or interleaving scheme as a part of the channel coding and/or interleaving scheme allocation made by the decision-making device" and "communicating said first channel coding and/or interleaving scheme to the base station and the terminal for them independently to apply said first channel coding and/or interleaving scheme in said specific communication connection".

Kronestedt discloses communicating a request message to the decision-making device (col. 3, lines 53-56), said request message indicating a certain set of Quality of Service parameters associated with certain specific communication connection (col. 3, lines56-61), mapping said set of Quality of Service parameters to a certain first channel coding and/or interleaving scheme as a part of the connection-specific channel coding and/or interleaving scheme allocation made by the decision-making device (46 in Fig. 4, also see col. 4, lines 30-34, col. 2, lines 60-62, col. 5, lines 24- 30) and communicating said first channel coding and/or interleaving scheme to the base station and the terminal for them to independently apply said first channel coding and/or interleaving scheme in said specific communication connection (44 in Fig. 4, col. 4, lines 35-36, col. 5, lines 16-20).

Kronestedt et al further teach that a good quality link needs little or no channel coding to achieve an acceptable BER. On the other hand, in order to achieve an acceptable BER, a poor connection may need a higher channel-coding rate (col. 1, lines 37-42). Therefore, it is

advantageous to use a link adaptation algorithm that adaptively chooses, from multiple coding schemes, the one channel coding scheme that achieves the highest throughput based on the time varying quality of the link (col. 1, lines 43-59). Therefore, it would have been obvious to a person of ordinary skill in the art at the time the invention was made to incorporate the steps of "mapping said set of Quality of Service parameters to a first channel coding and/or interleaving scheme as a part of the channel coding and/or interleaving scheme allocation made by the decision-making device" and communicating said first channel coding and/or interleaving scheme to the base station and the terminal for them to apply said first channel coding and/or interleaving scheme in said first communication connection" into the communication connection method of the admitted prior art, so as to achieve highest throughput that is adapted to the link quality.

Claims 4 and 5.

The claimed limitation of communicating a request message in response to an observed need is inherent since a request message would not be sent if it were not needed to establish or re-establish a communication connection.

Claim 6.

This claim recites equivalent limitations as in claim 1, and is therefore rejected for the reason applied to claim 1 above.

### Allowable Subject Matter

5. Claims 2 and 3 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim

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and any intervening claims.

Conclusion

6. The prior art made of record and not relied upon is considered pertinent to applicant's

disclosure.

Park et al (US pat. No. 6,902,602) describes that quality of service parameters include

BER and FER among other things at col.3, lines 44-57.

Any inquiry concerning this communication or earlier communications from the examiner should be

directed to Kevin Y. Kim whose telephone number is 571-272-3039. The examiner can normally be reached on

8AM --5PM M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jay Patel can be

reached on 571-272-2988. The fax phone number for the organization where this application or proceeding is

assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information

Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR

or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more

information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the

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assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-

786-9199 (IN USA OR CANADA) or 571-272-1000.

July 2, 2006

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PATENT EXAMINER